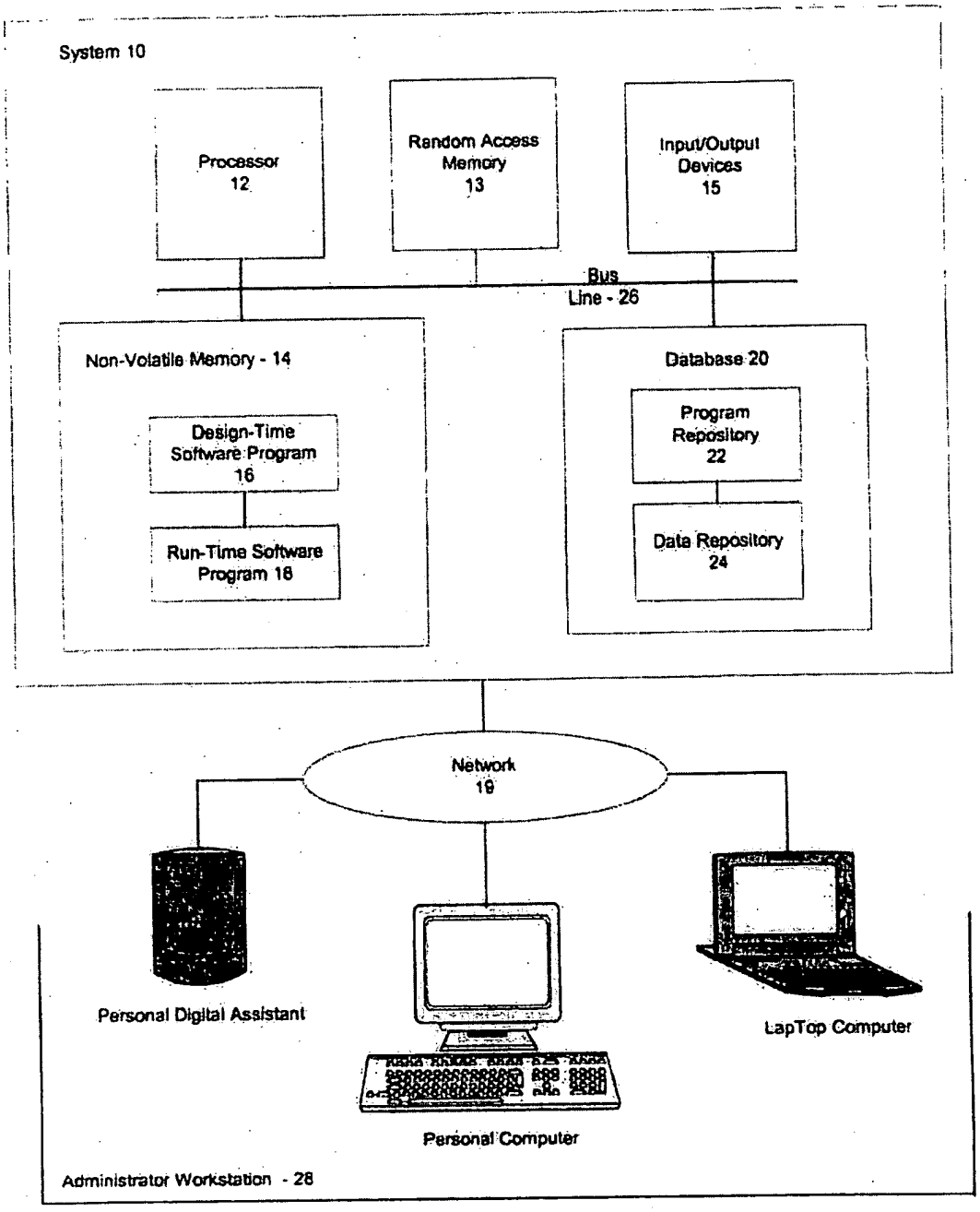
System 10
Processor 12
Random Access Memory 13
Input/Output Devices 15
Bus Line - 26
Non-Volatile Memory - 14
Design-Time Software Program 16
Run-Time Software Program 18
Database 20
Program Repository 22
Data Repository 24
Network 19
Personal Digital Assistant
Personal Computer
LapTop Computer
Administrator Workstation - 28

FIG. 1

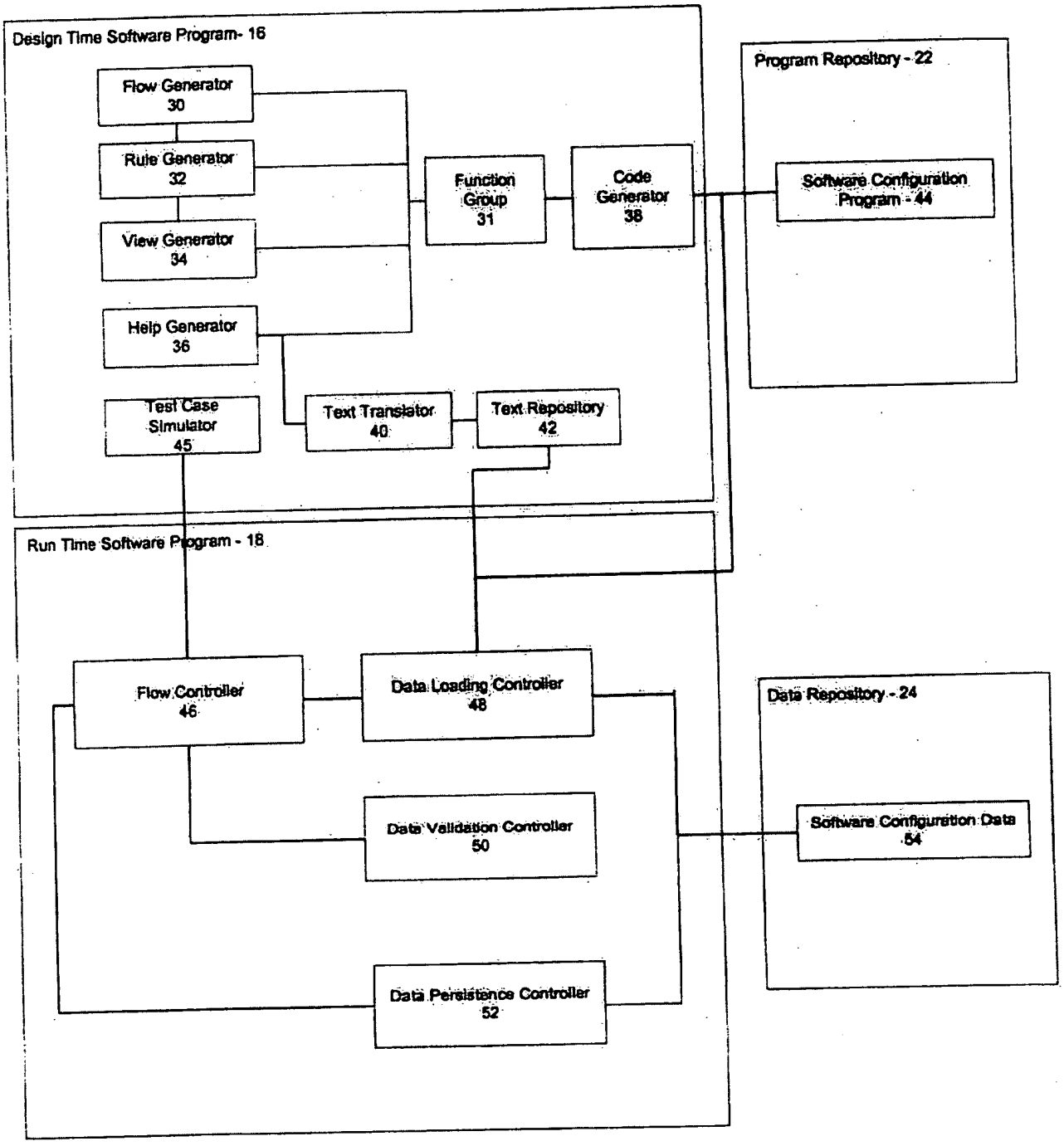
Design Time Software Program- 16
Flow Generator 30
Rule Generator 32
View Generator 34
Help Generator 36
Test Case Simulator 45
Text Translator 40
Text Repository 42
Function Group 31
Code Generator 38
Program Repository - 22
Software Configuration Program - 44
Run Time Software Program - 18
Flow Controller 46
Data Loading Controller 48
Data Validation Controller 50
Data Persistence Controller 52
Data Repository - 24
Software Configuration Data 54

FIG. 2

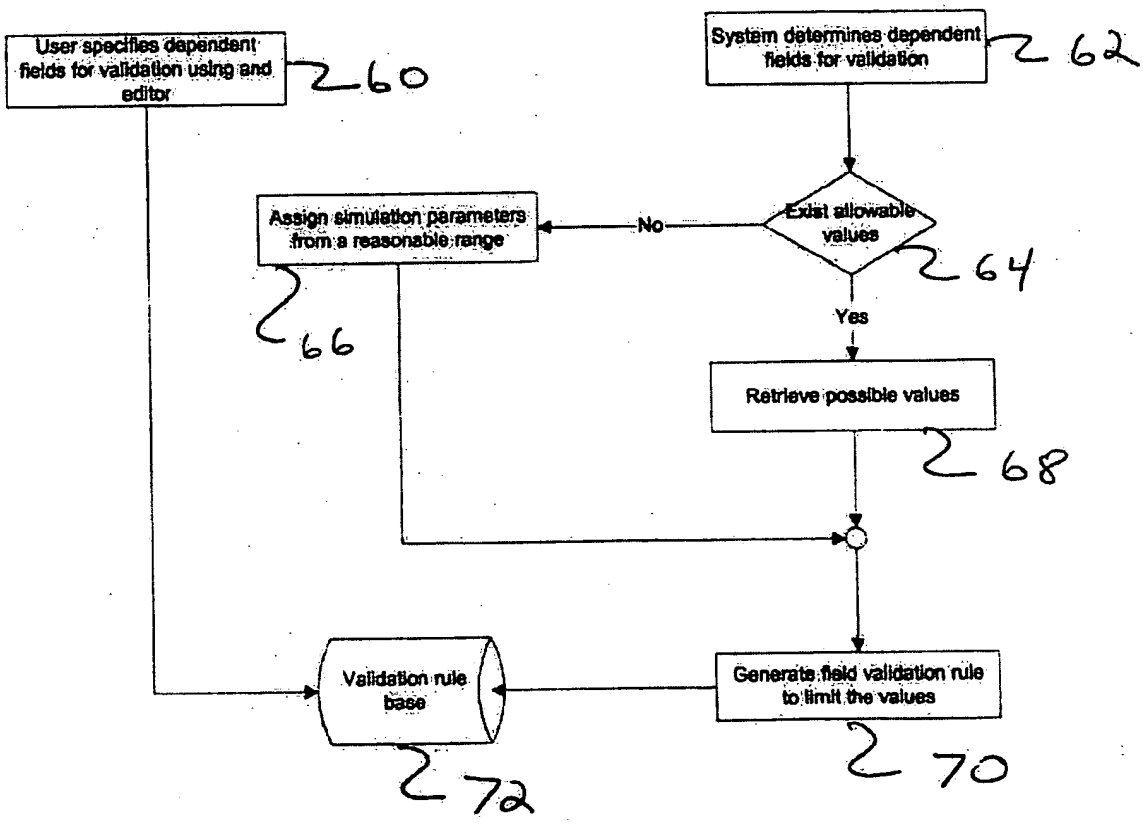
User specifies dependent fields for validation using and editor
60
System determines dependent fields for validation
62
Exist allowable values
64
No
Assign simulation parameters from a reasonable range
66
Yes
Retrieve possible values
68
Validation rule base
72
Generate field validation rule to limit the values
70

FIG. 3

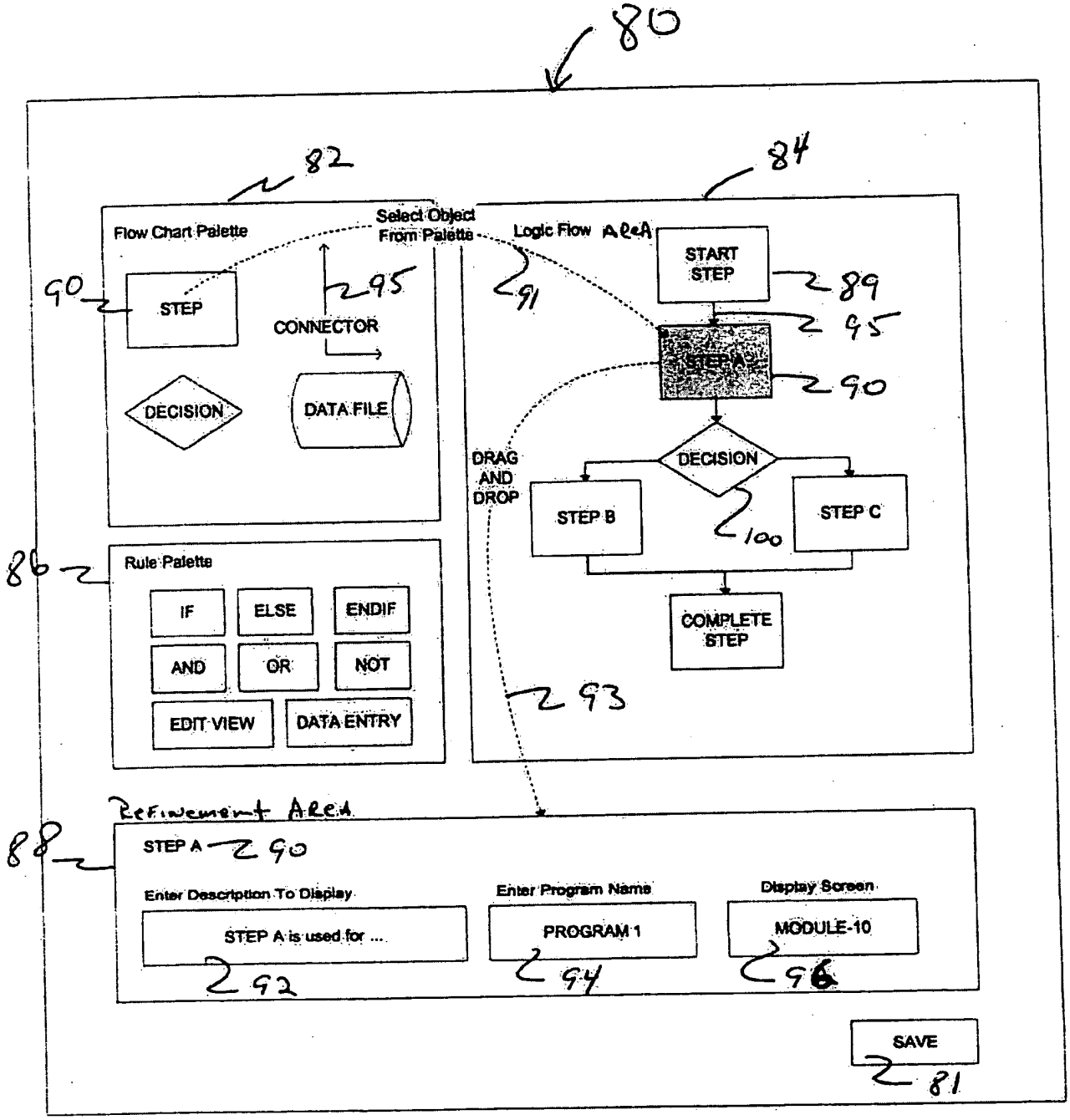
80
82
84
Flow Chart Palette
Select Object From Palette
Logic Flow Area
90
STEP
CONNECTOR
95
91
START STEP
89
95
STEP A
90
DECISION
DATA FILE
DRAG AND DROP
DECISION
STEP B
STEP C
100
86
Rule Palette
IF
ELSE
ENDIF
AND
OR
NOT
EDIT VIEW
DATA ENTRY
COMPLETE STEP
93
Refinement Area
88
STEP A 90
Enter Description To Display
Enter Program Name
Display Screen
STEP A is used for ....
PROGRAM 1
MODULE-10
92
94
96
SAVE
81

FIG. 4

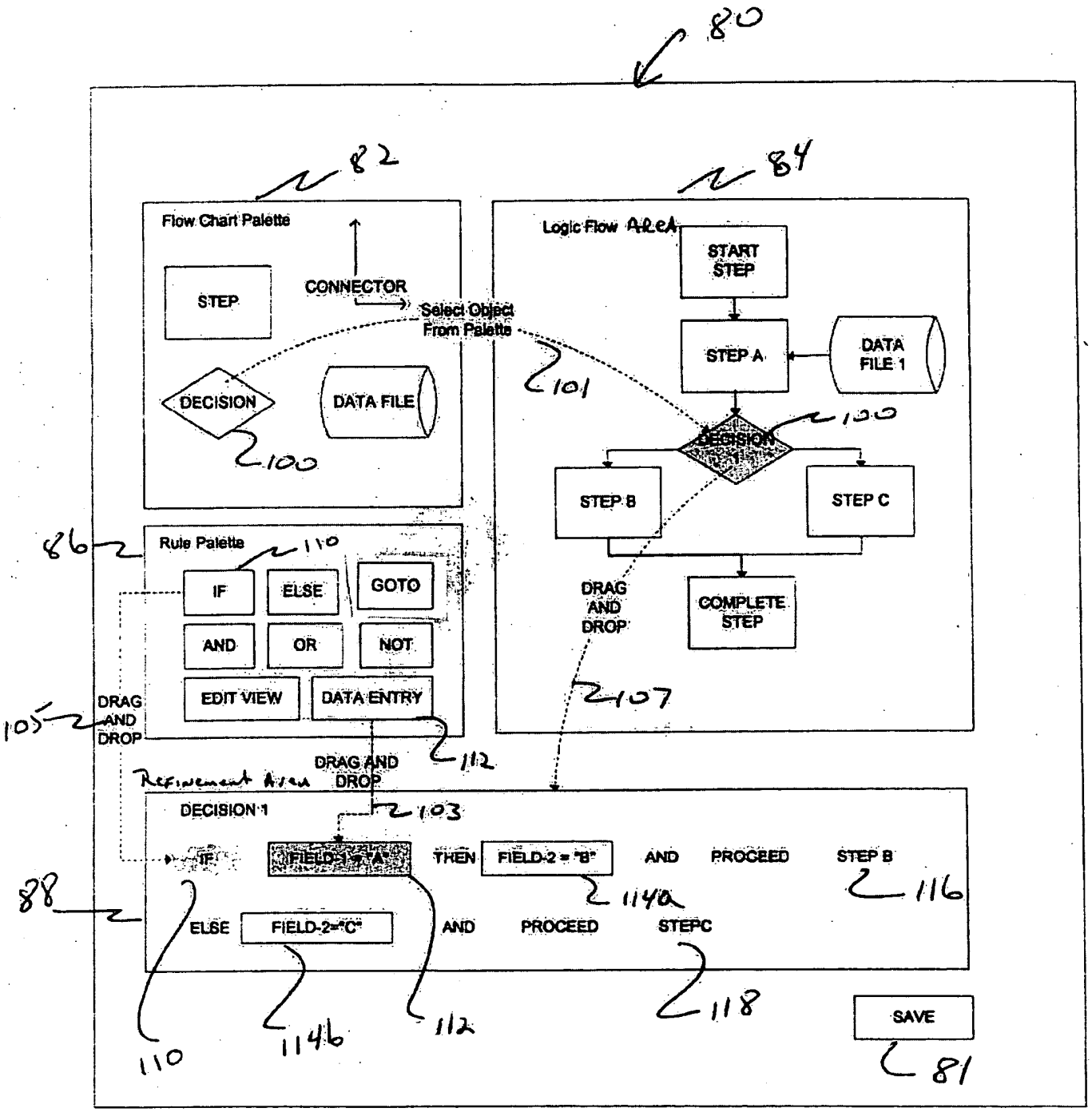
80
82
84
Flow Chart Palette
STEP
CONNECTOR
Select Object From Palette
DECISION
DATA FILE
100
101
Logic Flow Area
START STEP
STEP A
DATA FILE 1
DECISION 1
STEP B
STEP C
DRAG AND DROP
COMPLETE STEP
107
86
Rule Palette
110
IF
ELSE
GOTO
AND
OR
NOT
EDIT VIEW
DATA ENTRY
105
DRAG AND DROP
112
DRAG AND DROP
Refinement Area
DECISION 1
103
IF
FIELD-1 = A
THEN
FIELD-2 = "B"
AND
PROCEED
STEP B
116
114a
88
ELSE
FIELD-2="C"
AND
PROCEED
STEPC
118
SAVE
81
110
114b
112

FIG. 5